BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: Improvements to CC Road, Construction of Culvert in Singapura Village near to Santhosh Kumar House Road in Ward No. 11 (Kuvempunagara), Vidyaranyapura Sub Division.

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
							Estimate Cost:		**1500000.00**
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 150 / Item No. 19.1/ PWD SR 2012-13**	Cum							
	CC Drain								
	Road E		1	30.00	0.45	0.30	4.05		
	Road E		1	15.00	0.45	0.30	2.03		
	Road G		2	40.00	0.45	0.30	10.80		
	Road E		1	25.00	0.45	0.30	3.38		
	Road C		2	80.00	0.45	0.30	21.60		
	Road A		2	100.00	0.45	0.30	27.00		
	CC Road								
	Road G		1	40.00	2.50	0.15	15.00		
	For Culvert Road B		1	6.00	1.80	1.05	11.34		
							95.19	58.32	**5551.00**
	Basic Rate	54.00							
	Area Weightage @8%	4.32							
	Total	**58.32**							
2	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix M7.5 with OPC cement @ 180 Kgs** using 40mm and down size graded granite metal, corse aggregates @ 0.85 cum and fine aggregtes @ 0.58cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 **(P. 12 / I. 4.3 PWD SR - 2012-13)**	Cum							
	CC Drain								
	Road E		1	30.00	0.45	0.15	2.03		
	Road E		1	15.00	0.45	0.15	1.01		
	Road G		2	40.00	0.45	0.15	5.40		
	Road E		1	25.00	0.45	0.15	1.69		
	Road C		2	80.00	0.45	0.15	10.80		
	Road A		2	100.00	0.45	0.15	13.50		
	For Culvert Road B		1	6.00	1.80	0.15	1.62		
	CC Road								
	Road G		1	40.00	2.50	0.15	15.00		

	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Road Cutting Portion Road C		1	80.00	0.60	0.15	7.20		
	Road D		1	95.00	0.60	0.15	8.55		
	Road A		1	105.00	0.60	0.15	9.45		
	Road D		1	110.00	0.60	0.15	9.90		
	Road E		1	95.00	0.60	0.15	8.55		
	Road E		1	110.00	0.60	0.15	9.90		
	Road H		1	80.00	0.60	0.15	7.20		
	Road F		1	95.00	0.60	0.15	8.55		
	Road J		1	85.00	0.60	0.15	7.65		
	Road I		1	75.00	0.60	0.15	6.75		
	Road C		1	80.00	0.60	0.15	7.20		
	Road B		1	110.00	0.60	0.15	9.90		
							151.85	3812.82	**578958.00**
	Basic Rate	3597.00							
	Area Weightage @ 6%	215.82							
	Total	**3812.82**							
3	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation **cement mortar 1:6**, stone hammered dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specification. KBS 5.1.13 **(P. 25 / I. 5.6 PWD SR - 2012-13)**	Cum							
			2	6.00	0.60	0.90	**6.48**	2710.42	**17564.00**
	Basic Rate	2557.00							
	Area Weightage @ 6%	153.42							
	Total	**2710.42**							
4	KSRB 15.1.1 Providing flush pointing to square rubble, course or uncoursed stone masonry with **cement mortar 1:3,** 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. **(P. 120 / I. 15.3 PWD SR - 2012-13)**	Sqm							
			2	6.00		0.90	**10.80**	70.28	**759.00**
	Basic Rate	66.30							
	Area Weightage @ 6%	3.98							
	Total	**70.28**							
5	KSRB 4-1.6 : Providing and laying in position plain cement concrete of **mix M15 with cement @ 240 kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. **No. 12 / Item No. 4.6 / PWD SR 2012-13**	Cum							
			2	6.00	0.60	0.10	**0.72**	4327.98	**3116.00**
	Basic Rate	4083.00							
	Area Weightage @ 6%	244.98							

	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Total	**4327.98**							
	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878cum and fine aggregates @ 0.459 cum wuth superplastisier @ 3lts confirming to IS 9103-1999 reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, wall (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.6 **(P. 13/I. 4.11 PWD SR - 2012-13)**	Cum							
	Culvert		1	6.00	1.80	0.23	2.48		
	CC Moulded Drain Road E		1	30.00	0.90	0.07	1.89		
	Road E		1	15.00	0.90	0.07	0.95		
	Road G		2	40.00	0.90	0.07	5.04		
	Road E		1	25.00	0.90	0.07	1.58		
	Road C		2	80.00	0.90	0.07	10.08		
	Road A		2	100.00	0.90	0.07	12.60		
							34.61	5142.06	**177987.00**
	Basic Rate	4851.00							
	Area Weightage @ 6%	291.06							
	Total	**5142.06**							
7	KSRB 4.9.2:providing mild steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **Page No. 19/ Item No. 4.45/ PWD SR 2012-13**	Qtl							
	Culvert & CC Drain @ 60 Kg / Cum		0.60	34.61			**20.77**	7690.30	**159715.00**
	Basic Rate	7255.00							
	Area Weightage @ 6%	435.30							
	Total	**7690.30**							

	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	SRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **(P. 17 / I. 4.31 PWD SR - 2012-13)**	Sqm							
	2		1	6.00	0.60		3.60		
			2	1.80		0.25	0.90		
			2	6.00		0.25	3.00		
	Road E		4	30.00		0.30	36.00		
	Road E		4	15.00		0.30	18.00		
	Road G		2x4	40.00		0.30	96.00		
	Road E		4	25.00		0.30	30.00		
	Road C		2x4	80.00		0.30	192.00		
	Road A		2x4	100.00		0.30	240.00		
							619.50	244.08	**151208.00**
	Basic Rate	226.00							
	Area Weightage @ 8%	18.08							
	Total	**244.08**							
9	KSRRB M2600-3: Providing & fixing 20 mm thick compressible fibre board in expansion joint complete as per drawing & technical specification complete as per specifications, MORTH specification No. 2605, **No. 248 Item No. 31.3 PWD SR 2012-13**	M							
			4	2.50			**10.00**	132.84	**1328.00**
	Basic Rate	123.00							
	Area Weightage @ 8%	9.84							
	Total	**132.84**							
10	KSRB- 4-1.5 : Providing and laying in position plain cement concrete of **mix M20 with OPC cement @ 300 kgs, with 20mm** and down size graded granite metal coarse aggregates @ 0.64 cum and fine aggregares @ 0.43 cum with superplastisiser @ 3lts confirming to IS9103-1999 reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2, **No. 12 / Item No. 4.5 / PWD SR 2012-13**	Cum							
	For CC Road Road G		1	40.00	2.50	0.10	10.00		
	For Road Cutting Portion Road C		1	80.00	0.60	0.10	4.80		
	Road D		1	95.00	0.60	0.10	5.70		
	Road A		1	105.00	0.60	0.10	6.30		
	Road D		1	110.00	0.60	0.10	6.60		
	Road E		1	95.00	0.60	0.10	5.70		
	Road E		1	110.00	0.60	0.10	6.60		
	Road H		1	80.00	0.60	0.10	4.80		

	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Road F		1	95.00	0.60	0.10	5.70		
	Road J		1	80.00	0.60	0.10	4.80		
	Road I		1	85.00	0.60	0.10	5.10		
	Road C		1	80.00	0.60	0.10	4.80		
	Road B		1	110.00	0.60	0.10	6.60		
							77.50	4937.76	**382676.00**
	Basic Rate	4572.00							
	Area Weightage @ 8%	365.76							
	Total	**4937.76**							
11	**Vaccum De-watering** with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift No. **187/ Item No. 22.7/ PWD SR 2012-13**	Sqm							
	For CC Road		1	40.00	3.50		**140.00**	86.40	**12096.00**
	Basic Rate	80.00							
	Area Weightage @ 8%	6.40							
	Total	**86.40**							
12	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)	Cum							
			Vide Item No. 1				**95.19**	72.71	**6921.00**
	Average weight of earth 1.28 tonne / kg for 2X1.28X2.00=5.12	5.12							
	Add loading and unloading Vide item no.17.1 P.no.141	62.20							
		67.32							
	Area Weightage @ 8%	5.39							
	Total	**72.71**							
13	Miscellaneous and other Charges	**L/S**							**2121.00**
								Total	**1500000.00**
	(Rs. Fifteen Lakhs Only)								

Technical sanction for Rs. 15.00 lakh
Fifteen Lakh only
under POS - 2012-13
P. 1771
Registered as EE No: 393 / 12-13 Subject to conditions contained enclosed memo.
393 / 12-13 Dt. 10.1.13
AE/JE
EE (BTP. Div.)
10/1/2013

ADMINISTRATIVELY SANCTIONED FOR RS
Rupees Fifteen lakhs only
Under POS - 2012-13
P. 1771
Registered as EE ( ) No. 393
Subject to conditions contained in
enclosed memo EE ( ) No. 761 /13-
Dt. 7.1.13 Estimate N/Sanctioned
by CAO No 761/12-13
dated 7.1.13 Rs 15.00 lakh

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2012-13.
3 This work included under 2012-13 POW Grant.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

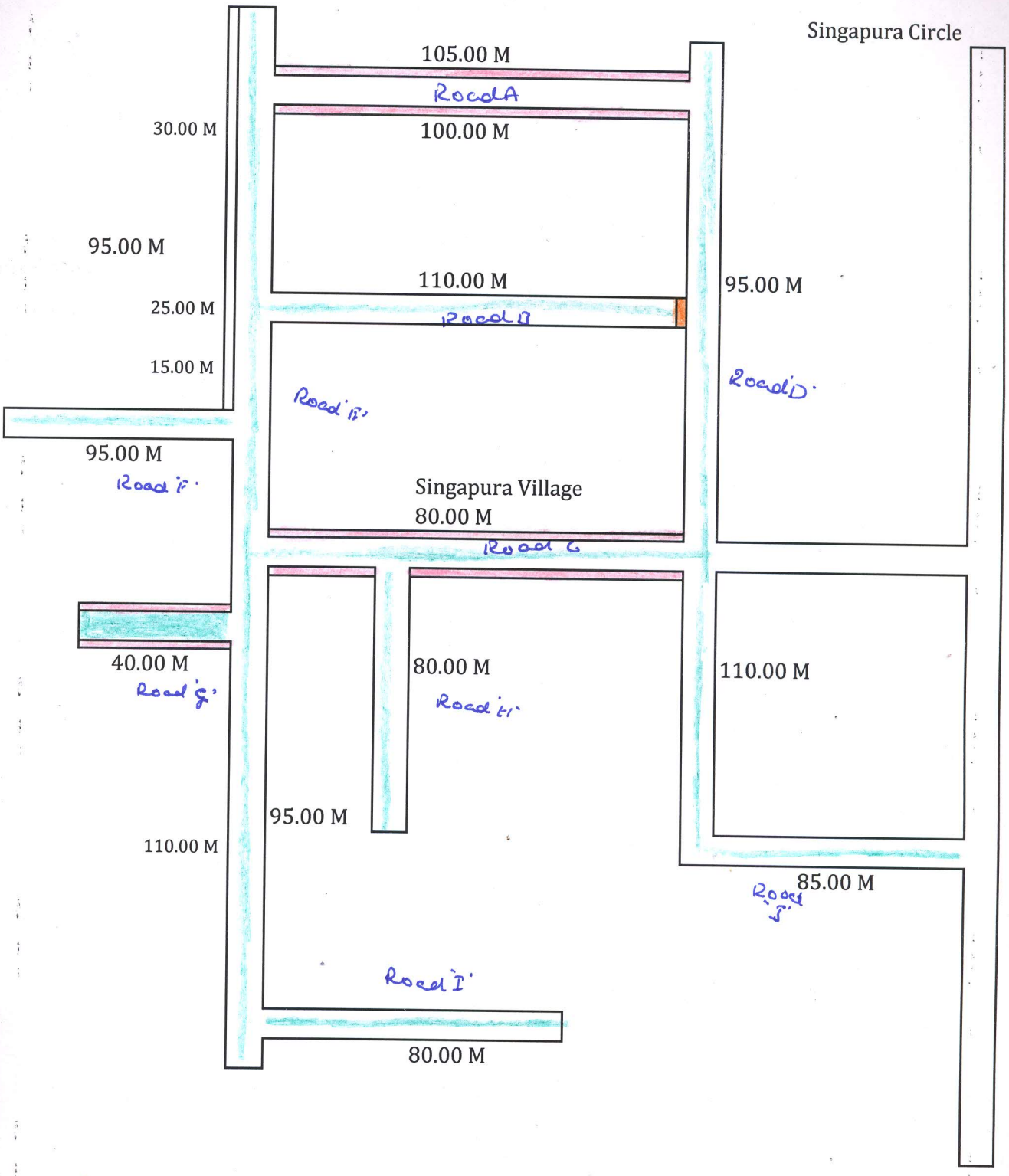
Assistant Engineer

Joint Commissioner (Yelahanka Zone) GKVK Bengaluru-65. 7/1/13

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Sketch Showing the Work of Improvements to CC Road, Construction of Culvert in Singapura Village near Auto Santhosh Kumar House Road in Ward No. 11 (Kuvempunagara) Vidyaranyapura Sub Division.



ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು.
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ.
ಯಲಹಂಕ ವಲಯ.
ಬೃ. ಬೆಂ. ಮ. ಪಾ. ಬೆಂಗಳೂರು-97